

Morbidity and Mortality

Weekly
Report

PUBLIC HEALTH SERVICE

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Prepared by the NATIONAL OFFICE OF VITAL STATISTICS Worth 3-4744

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Washington 25, D. C.

Vol. 9, No. 51

Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended December 24, 1960

NOTICE

The responsibility for the collection and publication of statistics on notifiable diseases in States and on deaths in large cities will be transferred from the National Office of Vital Statistics (NOVS) to the Communicable Disease Center effective January 1, 1961. All other vital statistics reports and records should continue to be sent to NOVS.

The Morbidity and Mortality Weekly Report will not be changed in format immediately nor will there be any changes in the mailing list. A letter has been sent to the individual States and cities regarding details of the transfer, transmission of reports, and an interim plan to provide the Communicable Disease Center with duplicate information during the 3 weeks preceding the transfer. Beginning with data for the week ending January 7, 1961, all weekly telegraphic and epidemiologic reports from the States and mortality reports from 123 cities—these reports only, and not others received by NOVS from these sources—should be sent to the: Communicable Disease Center
Atlanta 22, Georgia

Table 1. Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports)

Disease (Seventh Revision of International Lists, 1955)	51st week			Cumulative						Approximate seasonal low point
	Ended Dec. 24, 1960 ¹	Ended Dec. 26, 1959	Median 1955-59	First 51 weeks			Since seasonal low week			
				1960 ¹	1959	Median 1955-59	1959-60 ¹	1958-59	Median 1954-55 to 1958-59	
Anthrax-----062	-	-	-	18	12	20	(2)	(2)	(2)	(2)
Botulism-----049.1	-	-	-	10	21	11	(2)	(2)	(2)	(2)
Brucellosis (undulant fever)-----044	6	1	8	731	717	890	(2)	(2)	(2)	(2)
Diphtheria-----055	18	29	33	845	932	1,218	516	535	755	July 1
Encephalitis, infectious-----082	23	24	22	1,850	2,183	2,169	1,237	1,605	1,566	June 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	926	445	395	40,128	22,746	18,710	14,625	7,623	5,199	Sept. 1
Malaria-----110-117	1	-	1	75	70	145	(2)	(2)	(2)	(2)
Measles-----085	4,020	4,530	4,510	432,054	397,697	543,772	32,296	34,382	34,382	Sept. 1
Meningitis, aseptic-----340 pt.	38	-	-	2,968	-	-	-	-	-	-
Meningococcal infections-----057	33	27	43	2,150	2,192	2,591	615	625	812	Sept. 1
Poliomyelitis-----080	28	70	85	3,238	8,513	8,513	3,021	8,220	8,220	Apr. 1
Paralytic-----080.0,080.1	15	52	58	2,238	5,671	5,671	2,085	5,463	5,463	Apr. 1
Nonparalytic-----080.2	7	15	15	652	2,158	2,795	615	2,110	2,639	Apr. 1
Unspecified-----080.3	6	3	14	348	684	929	321	647	865	Apr. 1
Psittacosis-----096.2	7	2	4	102	121	260	(2)	(2)	(2)	(2)
Rabies in man-----094	-	1	-	2	5	5	(2)	(2)	(2)	(2)
Streptococcal sore throat, including scarlet fever-----050,051	5,094	-	-	301,978	-	-	-	-	-	-
Typhoid fever-----040	13	7	12	794	855	1,263	667	728	1,019	Apr. 1
Typhus fever, endemic-----101	1	-	1	63	47	102	58	41	86	Apr. 1
Rabies in animals-----	26	70	76	3,282	3,846	4,417	511	900	900	Oct. 1

¹Data exclude reports from Arizona and South Carolina for the current week.

²Data show no pronounced seasonal change in incidence.

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Eleven of the 18 cases of diphtheria reported for the week ended December 24 occurred in Texas. For the preceding week, 25 cases were reported in Texas. Information has been received of an outbreak in Hale County, Texas. During the period from November 5 to December 4, 11 cases had been reported. Most of these cases were in children of pre-school age who had not been immunized. On December 14 a second wave of cases began with some 34 cases occurring during the next 8 days. Fifty percent of the cases in this wave were in children over 12 years of age. No deaths have been reported. Laboratory tests have confirmed the presence of virulent, toxin producing diphtheria organisms.

EPIDEMIOLOGICAL REPORTS

Poliomyelitis

The North Carolina Communicable Disease Summary for the week ended December 17 states that of 51 cases of poliomyelitis having onset during the period January through November, 31 cases were in children under 5 years of age and 10 were in children in the 5 to 9 year age group. Five deaths were attributed to poliomyelitis. Twenty-six of the cases were in persons who had not received any vaccine, and 11 cases were in persons who had received the full course of 3 inoculations.

Gastroenteritis

Miss Helen Kovis, Benton-Franklin Health District (Washington), reported that 4 members of a family became ill following a dinner of corned beef, vegetable, and beverage. Symptoms consisted of nausea, vomiting, thirst, abdominal cramps, diarrhea, and headache beginning about 3 hours after the meal. One other member of the family did not eat the meat and did not become ill. Samples of the corned beef, vegetable, and ham were negative for organisms usually associated with food poisoning. The corned beef was a canned product purchased 2 days before it was cooked and served.

Shigellosis

The Idaho Health Bulletin, November 25, 1960, contains a report of a recent outbreak of shigellosis in an Idaho village. Investigation disclosed that at least 65 persons were ill during a 30-day period. Cases began to appear among the school population of the community on October 16 with an earlier suspect case occurring on October 7. Sporadic cases, from 1 to 6 cases per day, occurred during a 12-day period after October 16. Then some 25 cases occurred in a 3-day period with additional cases reported during the next 5 days. Laboratory examination of stool specimens revealed the etiologic agent to be *Shigella sonnei*. It was reported that the typical case had symptoms of abdominal pain, diarrhea, and fever from 102 to 104° F., generally lasting from 10 to 24 hours. Nausea and vomiting were present in some cases. The diarrhea and prostration persisted for 3 or 4 days or longer. Six cases were hospitalized. Twenty-nine of the known cases were in school children; 10 were in pre-school age children; 10 were in children of unknown age; and 16 were in adults. Five of the adults were school teachers. The total school population is 192, and the population of the village is 250. Most of the 32 cases occurring between October 29 and November 3 were in persons who had attended a school carnival on October 28. The food served at the carnival was prepared by many individuals of the community. Examination of the school lunch facilities indicated they were in good order. Samples of water obtained from the community water supply, from deep wells with an elevated reservoir, were negative for coliform bacteria. The village has no sewer system, and it relies on individual septic tanks. The septic tank effluent from the school runs through a sewer directly into a river.

QUARANTINE MEASURES

Immunization Information for International Travel

No changes reported

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 26, 1959, AND DECEMBER 24, 1960

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Polio myelitis 080										Menin- gitis, aseptic	Brucel- losis (undul- ant fever)
	Total ¹				Paralytic 080.0,080.1				Nonparalytic			
	51st week		Cumulative, first 51 weeks		51st week		Cumulative, first 51 weeks		080.2			
	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	340 pt.	044
UNITED STATES ² -----	28	70	3,238	8,513	15	52	2,238	5,671	7	15	38	6
NEW ENGLAND-----	-	3	235	396	-	3	186	305	-	-	-	-
Maine-----	-	1	52	90	-	1	51	90	-	-	-	-
New Hampshire-----	-	-	-	5	-	-	-	4	-	-	-	-
Vermont-----	-	-	11	11	-	-	6	9	-	-	-	-
Massachusetts-----	-	2	34	158	-	2	23	111	-	-	-	-
Rhode Island-----	-	-	103	10	-	-	78	7	-	-	-	-
Connecticut-----	-	-	35	122	-	-	28	84	-	-	-	-
MIDDLE ATLANTIC-----	15	10	500	839	6	6	351	560	4	4	1	-
New York-----	13	5	277	523	5	3	176	324	3	2	1	-
New Jersey-----	1	1	85	138	-	-	61	92	1	1	-	-
Pennsylvania-----	1	4	138	178	1	3	114	144	-	1	-	-
EAST NORTH CENTRAL-----	6	9	561	1,291	5	8	344	592	-	1	10	-
Ohio-----	2	2	129	281	2	2	67	125	-	-	3	-
Indiana-----	3	-	145	152	2	-	105	108	-	-	-	-
Illinois-----	-	7	151	341	-	6	103	183	-	1	6	-
Michigan-----	1	-	95	457	1	-	56	142	-	-	1	-
Wisconsin-----	-	-	41	60	-	-	13	34	-	-	-	-
WEST NORTH CENTRAL-----	-	13	178	1,551	-	7	104	858	-	5	8	1
Minnesota-----	-	-	55	247	-	-	45	201	-	-	8	-
Iowa-----	-	-	23	438	-	-	4	233	-	-	-	1
Missouri-----	-	5	44	510	-	2	32	277	-	2	-	-
North Dakota-----	-	-	16	16	-	-	7	9	-	-	-	-
South Dakota-----	-	-	5	14	-	-	1	1	-	-	-	-
Nebraska-----	-	-	16	136	-	-	9	69	-	-	-	-
Kansas-----	-	8	19	190	-	5	6	68	-	3	-	-
SOUTH ATLANTIC ² -----	-	12	599	1,295	-	9	465	1,029	-	1	-	-
Delaware-----	-	-	-	9	-	-	-	7	-	-	-	-
Maryland-----	-	-	153	44	-	-	138	41	-	-	-	-
District of Columbia-----	-	-	5	6	-	-	5	5	-	-	-	-
Virginia-----	-	1	55	287	-	1	50	247	-	-	-	-
West Virginia-----	-	-	62	195	-	-	51	163	-	-	-	-
North Carolina-----	-	3	96	291	-	3	62	249	-	-	-	-
South Carolina-----	-	-	2132	90	-	-	289	49	-	-	-	-
Georgia-----	-	5	26	175	-	5	24	136	-	-	-	-
Florida-----	-	3	70	198	-	-	46	132	-	1	-	-
EAST SOUTH CENTRAL-----	-	5	261	881	-	4	111	671	-	1	2	1
Kentucky-----	-	-	138	113	-	-	5	87	-	-	2	-
Tennessee-----	-	-	55	389	-	-	38	294	-	-	-	-
Alabama-----	-	-	23	251	-	-	23	212	-	-	-	-
Mississippi-----	-	5	45	128	-	4	45	78	-	1	-	1
WEST SOUTH CENTRAL-----	4	4	294	1,137	2	3	189	748	2	1	4	-
Arkansas-----	2	-	36	304	1	-	26	230	1	-	3	-
Louisiana-----	2	1	52	143	1	1	32	104	1	-	-	-
Oklahoma-----	-	2	17	160	-	2	12	92	-	-	-	-
Texas-----	-	1	189	530	-	-	119	322	-	1	1	-
MOUNTAIN ² -----	-	2	101	203	-	1	51	114	-	1	2	-
Montana-----	-	1	24	14	-	1	17	6	-	-	-	-
Idaho-----	-	-	11	8	-	-	1	-	-	-	-	-
Wyoming-----	-	-	22	2	-	-	1	1	-	-	-	-
Colorado-----	-	-	21	26	-	-	19	18	-	-	2	-
New Mexico-----	-	-	7	44	-	-	4	27	-	-	-	-
Arizona-----	-	1	29	90	-	-	27	54	-	1	-	-
Utah-----	-	-	7	12	-	-	2	4	-	-	-	-
Nevada-----	-	-	-	7	-	-	-	4	-	-	-	-
PACIFIC-----	3	12	509	920	2	11	437	794	1	1	11	4
Washington-----	1	5	40	215	1	5	40	215	-	-	4	-
Oregon-----	-	2	36	187	-	1	19	147	-	1	2	-
California-----	2	5	423	489	1	5	368	417	1	-	5	4
Alaska-----	-	-	2	29	-	-	2	15	-	-	-	-
Hawaii-----	-	-	8	(5)	-	-	8	(5)	-	-	-	-
Puerto Rico-----	1	-	498	8	1	-	492	7	-	-	-	-

¹Includes cases not specified by type, category number 080.3.

²Data exclude reports from South Carolina and Arizona for the current week.

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 26, 1959, AND DECEMBER 24, 1960—Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Diphtheria 055				Encephalitis, infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	51st week		Cumulative, first 51 weeks		082		51st week		Cumulative, first 51 weeks		085	
	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959
UNITED STATES ² -----	18	29	845	932	23	24	926	445	40,128	22,746	4,020	4,530
NEW ENGLAND-----	-	-	13	5	8	-	21	21	1,136	765	266	284
Maine-----	-	-	3	-	-	-	1	-	82	91	5	90
New Hampshire-----	-	-	-	-	-	-	-	-	34	15	36	1
Vermont-----	-	-	-	-	-	-	1	-	29	27	8	3
Massachusetts-----	-	-	9	5	8	-	-	13	532	402	161	176
Rhode Island-----	-	-	1	-	-	-	5	2	211	77	40	1
Connecticut-----	-	-	-	-	-	-	14	6	248	153	16	13
MIDDLE ATLANTIC-----	-	-	17	51	1	3	112	54	4,957	3,341	1,100	306
New York-----	-	-	5	25	-	1	39	32	2,636	2,008	445	233
New Jersey-----	-	-	2	10	-	-	24	1	386	325	183	45
Pennsylvania-----	-	-	10	16	1	2	49	21	1,935	1,008	472	28
EAST NORTH CENTRAL-----	-	-	42	32	4	5	237	82	7,356	3,508	1,305	1,237
Ohio-----	-	-	16	11	-	1	75	32	2,559	1,030	467	162
Indiana-----	-	-	8	5	-	2	37	5	874	334	39	36
Illinois-----	-	-	6	10	3	2	76	17	1,614	788	39	412
Michigan-----	-	-	10	4	1	-	45	14	2,071	1,114	287	163
Wisconsin-----	-	-	2	2	-	-	4	14	238	242	473	464
WEST NORTH CENTRAL-----	1	10	66	78	1	-	76	26	2,797	1,800	158	445
Minnesota-----	-	2	38	25	-	-	25	12	531	417	2	106
Iowa-----	1	-	9	3	-	-	9	1	444	164	25	301
Missouri-----	-	2	2	10	-	-	30	6	928	432	42	1
North Dakota-----	-	-	3	2	-	-	1	2	182	453	88	37
South Dakota-----	-	-	10	4	-	-	-	1	155	76	1	-
Nebraska-----	-	6	2	26	-	-	2	3	278	88	-	-
Kansas-----	-	-	2	8	1	-	9	1	279	170	(*)	(*)
SOUTH ATLANTIC ² -----	4	6	236	291	1	2	79	47	4,559	2,028	286	168
Delaware-----	-	-	-	-	-	-	3	-	266	136	28	2
Maryland-----	-	-	1	8	-	-	12	7	465	401	20	32
District of Columbia-----	-	-	-	-	-	1	2	1	64	21	1	13
Virginia-----	1	1	41	15	-	-	15	9	790	500	143	65
West Virginia-----	-	-	4	3	-	-	15	3	872	315	29	6
North Carolina-----	1	-	20	25	-	1	8	1	466	125	21	-
South Carolina-----	-	-	250	31	-	-	-	1	2186	55	-	-
Georgia-----	-	2	45	121	-	-	18	3	300	143	17	6
Florida-----	2	3	75	88	1	-	6	22	1,150	332	27	44
EAST SOUTH CENTRAL-----	2	6	138	123	-	4	133	44	5,821	2,375	359	88
Kentucky-----	-	-	55	9	-	-	43	25	2,026	1,238	293	49
Tennessee-----	-	-	9	10	-	-	68	13	2,025	510	65	33
Alabama-----	1	6	39	59	-	3	12	6	1,227	476	1	5
Mississippi-----	1	-	35	45	-	1	10	-	543	151	-	1
WEST SOUTH CENTRAL-----	11	5	295	314	2	-	59	19	3,010	1,780	75	656
Arkansas-----	-	3	16	42	-	-	16	-	261	81	1	-
Louisiana-----	-	-	80	96	-	-	2	1	191	118	-	2
Oklahoma-----	-	2	25	21	-	-	-	3	332	277	-	8
Texas-----	11	-	174	155	2	-	41	15	2,226	1,304	74	646
MOUNTAIN ² -----	-	1	36	21	-	1	80	78	3,140	2,972	119	925
Montana-----	-	-	3	-	-	-	17	1	196	274	29	84
Idaho-----	-	1	11	1	-	-	3	6	329	371	19	26
Wyoming-----	-	-	5	-	-	-	1	-	39	60	1	308
Colorado-----	-	-	3	8	-	-	50	38	1,168	868	55	30
New Mexico-----	-	-	4	8	-	-	3	14	341	550	-	385
Arizona-----	-	-	23	2	-	-	-	12	2,642	592	-	9
Utah-----	-	-	7	-	-	1	6	6	299	230	5	83
Nevada-----	-	-	-	2	-	-	-	1	126	27	10	-
PACIFIC-----	-	1	2	17	6	9	129	74	7,352	4,177	352	421
Washington-----	-	-	-	-	1	-	28	10	1,001	555	91	154
Oregon-----	-	1	-	6	-	-	17	19	1,125	896	78	131
California-----	-	-	1	6	5	9	81	38	4,888	2,646	179	115
Alaska-----	-	-	1	5	-	-	3	7	252	80	4	21
Hawaii-----	-	-	-	(2)	-	-	-	-	86	(51)	-	(382)
Puerto Rico-----	2	-	139	45	-	-	35	-	778	374	35	19

²Data exclude reports from South Carolina and Arizona for the current week.

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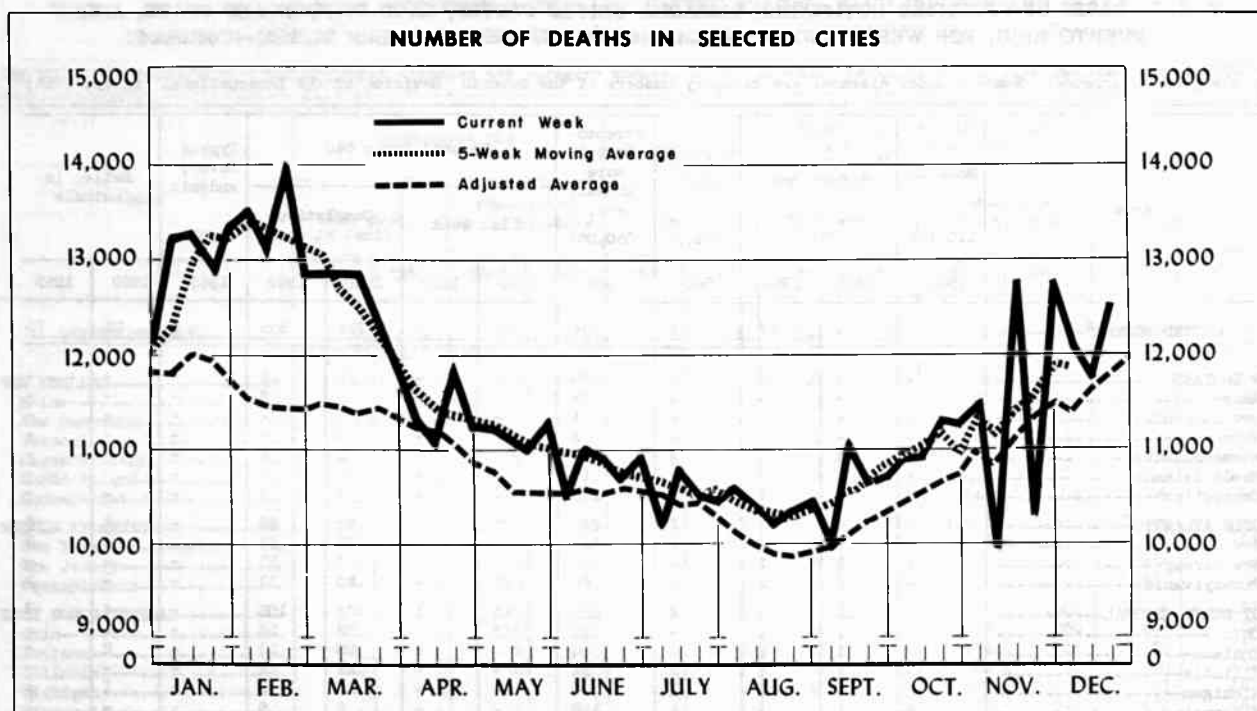
Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 26, 1959, AND DECEMBER 24, 1960—Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria	Meningococcal infections		Psittacosis	Streptococcal sore throat, etc.	Typhoid fever 040				Typhus fever, endemic	Rabies in animals	
	110-117	057		096.2	050,051	51st week		Cumulative, first 51 weeks		101		
	1960	1960	1959	1960	1960	1960	1959	1960	1959	1960	1960	1959
UNITED STATES ² -----	1	33	27	7	5,094	13	7	794	855	1	26	70
NEW ENGLAND-----	-	1	2	-	280	-	-	11	16	-	-	-
Maine-----	-	-	-	-	15	-	-	2	2	-	-	-
New Hampshire-----	-	-	-	-	4	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	5	-	-	-	-	-	-	-
Massachusetts-----	-	1	1	-	119	-	-	5	6	-	-	-
Rhode Island-----	-	-	-	-	12	-	-	-	3	-	-	-
Connecticut-----	-	-	1	-	125	-	-	4	5	-	-	-
MIDDLE ATLANTIC-----	-	10	3	2	242	2	-	62	88	-	1	3
New York-----	-	1	1	1	126	-	-	35	38	-	1	2
New Jersey-----	-	3	1	-	50	-	-	7	13	-	-	-
Pennsylvania-----	-	6	1	1	66	2	-	20	37	-	-	1
EAST NORTH CENTRAL-----	-	11	5	2	553	3	1	102	105	-	4	2
Ohio-----	-	1	1	-	126	3	-	32	52	-	1	-
Indiana-----	-	1	2	-	84	-	1	25	17	-	2	-
Illinois-----	-	2	1	-	94	-	-	21	21	-	-	-
Michigan-----	-	6	1	1	129	-	-	16	9	-	1	1
Wisconsin-----	-	1	-	1	120	-	-	8	6	-	-	1
WEST NORTH CENTRAL-----	-	3	2	1	131	-	-	48	53	-	6	19
Minnesota-----	-	-	-	-	7	-	-	1	4	-	1	3
Iowa-----	-	1	-	-	19	-	-	11	9	-	1	5
Missouri-----	-	-	1	-	15	-	-	26	19	-	1	9
North Dakota-----	-	2	-	-	26	-	-	1	5	-	1	2
South Dakota-----	-	-	-	-	1	-	-	4	3	-	-	-
Nebraska-----	-	-	-	-	-	-	-	3	5	-	1	-
Kansas-----	-	-	1	1	63	-	-	2	8	-	1	-
SOUTH ATLANTIC ² -----	-	2	10	-	164	-	-	117	144	-	7	18
Delaware-----	-	-	1	-	-	-	-	1	3	-	-	-
Maryland-----	-	1	-	-	18	-	-	6	5	-	-	-
District of Columbia-----	-	-	-	-	1	-	-	10	4	-	-	-
Virginia-----	-	-	3	-	43	-	-	24	30	-	4	2
West Virginia-----	-	1	2	-	41	-	-	14	15	-	3	3
North Carolina-----	-	-	-	-	16	-	-	9	15	-	-	11
South Carolina-----	-	-	-	-	-	-	-	212	13	-	-	1
Georgia-----	-	-	-	-	5	-	-	27	31	-	-	1
Florida-----	-	-	4	-	40	-	-	14	28	-	-	-
EAST SOUTH CENTRAL-----	1	1	2	1	1,125	2	1	124	128	-	-	3
Kentucky-----	1	-	1	-	156	1	-	33	30	-	-	-
Tennessee-----	-	1	1	1	942	1	1	58	60	-	-	1
Alabama-----	-	-	-	-	19	-	-	25	21	-	-	2
Mississippi-----	-	-	-	-	8	-	-	8	17	-	-	-
WEST SOUTH CENTRAL-----	-	-	2	-	714	3	4	207	186	1	6	22
Arkansas-----	-	-	-	-	-	1	1	52	38	-	5	8
Louisiana-----	-	-	2	-	12	-	-	59	31	-	1	-
Oklahoma-----	-	-	-	-	1	-	-	12	17	-	-	-
Texas-----	-	-	-	-	701	2	3	84	100	1	-	14
MOUNTAIN ² -----	-	3	-	-	1,244	2	-	47	46	-	1	-
Montana-----	-	-	-	-	140	-	-	13	2	-	-	-
Idaho-----	-	-	-	-	100	-	-	3	7	-	-	-
Wyoming-----	-	1	-	-	6	-	-	4	7	-	-	-
Colorado-----	-	2	-	-	502	-	-	1	4	-	-	-
New Mexico-----	-	-	-	-	269	2	-	15	19	-	1	-
Arizona-----	-	-	-	-	-	-	-	29	6	-	-	-
Utah-----	-	-	-	-	225	-	-	2	1	-	-	-
Nevada-----	-	-	-	-	2	-	-	-	-	-	-	-
PACIFIC-----	-	2	1	1	641	1	1	76	89	-	1	3
Washington-----	-	-	-	-	339	-	-	5	3	-	-	-
Oregon-----	-	-	1	-	71	-	1	8	8	-	-	-
California-----	-	2	-	1	216	1	-	62	74	-	1	3
Alaska-----	-	-	-	-	11	-	-	1	4	-	-	-
Hawaii-----	-	-	-	-	4	-	-	-	(2)	-	-	-
Puerto Rico-----	-	-	-	-	2	5	-	30	18	-	-	1

²Data exclude reports from South Carolina and Arizona for the current week.

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The chart shows the number of deaths reported for 117 major cities of the United States by week for the current year, a 5-week moving average of these figures plotted at the central week, and an adjusted average for comparison. The adjusted average is computed as follows: From the total deaths reported each week for the years 1955-59, 3 central figures are selected by eliminating the highest and lowest figures reported for that week. A 5-week moving average of the arithmetic means of the 3 central figures is then computed. The adjusted average shown in the chart is this moving average increased by 4.0 percent to allow for estimated population growth in the cities and surrounding areas.

The use of the adjusted average is based on the assumption that the crude death rate and changes in population will remain at the level of recent years. No allowance has been made for increased use of city hospital facilities.

Table 4 shows the number of death certificates received during the week indicated for deaths that occurred in selected cities. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval between death and receipt of the certificate and because of incomplete reporting due to holidays or vacations. If a report is not received from a city in time to be included in the total for the current week, an estimate is used.

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of the populations and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS

(By place of occurrence and week of filing certificate. Excludes fetal deaths. Data exclude figures shown in parentheses in table 4)

Area	51st week ended Dec. 24, 1960	50th week ended Dec. 17, 1960	Adjusted average, 51st week 1955-59	Percent change, adjusted average to current week ¹	Cumulative, first 51 weeks		
					1960	1959	Percent change
TOTAL, 117 REPORTING CITIES-----	² 12,503	11,798	11,740	+6.5	² 587,260	571,138	+2.8
New England----- (14 cities)	2,798	767	783	+1.9	236,991	35,811	+3.3
Middle Atlantic----- (20 cities)	² 3,768	3,298	3,443	+9.4	² 163,601	162,855	+0.5
East North Central----- (21 cities)	² 2,598	2,513	2,662	-2.4	² 126,972	124,153	+2.3
West North Central----- (9 cities)	851	805	837	+1.7	40,720	39,529	+3.0
South Atlantic----- (11 cities)	1,063	988	1,043	+1.9	50,262	48,829	+2.9
East South Central----- (8 cities)	529	532	535	-1.1	26,559	25,951	+2.3
West South Central----- (13 cities)	² 1,105	1,041	1,029	+7.4	² 51,041	47,897	+6.6
Mountain----- (8 cities)	405	377	307	+31.9	18,479	15,857	+16.5
Pacific----- (13 cities)	1,386	1,477	1,502	-7.7	72,635	70,256	+3.4

¹Adjusted average used as base.

²Includes estimates for missing cities.

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Table 4. DEATHS IN SELECTED CITIES

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	51st week ended Dec. 24, 1960	50th week ended Dec. 17, 1960	Cumulative, first 51 weeks		Area	51st week ended Dec. 24, 1960	50th week ended Dec. 17, 1960	Cumulative, first 51 weeks	
			1960	1959				1960	1959
NEW ENGLAND:					WEST NORTH CENTRAL—Con.:				
Boston, Mass.-----	277	254	12,814	12,255	St. Louis, Mo.-----	260	232	12,416	12,033
Bridgeport, Conn.-----	56	34	2,089	1,953	St. Paul, Minn.-----	70	75	3,518	3,318
Cambridge, Mass.-----	30	25	1,550	1,460	Wichita, Kans.-----	37	61	2,370	2,384
Fall River, Mass.-----	24	42	1,448	1,417	SOUTH ATLANTIC:				
Hartford, Conn.-----	56	62	2,553	2,481	Atlanta, Ga.-----	117	113	5,985	5,695
Lowell, Mass.-----	27	22	1,209	1,207	Baltimore, Md.-----	276	254	12,833	12,293
Lynn, Mass.-----	22	30	1,244	1,171	Charlotte, N.C.-----	35	26	1,953	1,869
New Bedford, Mass.-----	34	36	1,301	1,234	Jacksonville, Fla.-----	49	68	3,001	2,936
New Haven, Conn.-----	145	46	2,284	2,276	Miami, Fla.-----	80	80	3,636	3,537
Providence, R.I.-----	68	82	3,297	3,269	Norfolk, Va.-----	47	41	2,030	1,980
Somerville, Mass.-----	18	14	684	664	Richmond, Va.-----	78	70	3,957	3,967
Springfield, Mass.-----	48	41	2,296	2,253	Savannah, Ga.-----	41	27	1,709	1,670
Waterbury, Conn.-----	36	24	1,427	1,403	St. Petersburg, Fla.-----	(79)	(69)	(3,617)	(3,318)
Worcester, Mass.-----	57	55	2,795	2,768	Tampa, Fla.-----	61	85	3,315	3,119
MIDDLE ATLANTIC:					Washington, D.C.-----	224	182	9,858	9,871
Albany, N.Y.-----	149	20	2,202	2,514	Wilmington, Del.-----	55	42	1,985	1,892
Allentown, Pa.-----	49	34	1,797	1,735	EAST SOUTH CENTRAL:				
Buffalo, N.Y.-----	148	138	7,360	7,383	Birmingham, Ala.-----	85	93	4,351	4,236
Camden, N.J.-----	33	56	2,145	2,086	Chattanooga, Tenn.-----	55	38	2,412	2,327
Elizabeth, N.J.-----	38	29	1,492	1,505	Knoxville, Tenn.-----	28	31	1,429	1,425
Erie, Pa.-----	50	40	1,992	1,853	Louisville, Ky.-----	132	113	5,791	5,695
Jersey City, N.J.-----	94	77	3,595	3,681	Memphis, Tenn.-----	94	115	5,678	5,734
Newark, N.J.-----	137	72	4,963	5,043	Mobile, Ala.-----	62	41	2,133	1,973
New York City, N.Y.-----	2,101	1,768	83,809	83,525	Montgomery, Ala.-----	25	33	1,737	1,639
Paterson, N.J.-----	54	49	2,006	1,935	Nashville, Tenn.-----	48	68	3,028	2,922
Philadelphia, Pa.-----	448	488	24,637	24,734	WEST SOUTH CENTRAL:				
Pittsburgh, Pa.-----	184	180	9,832	9,348	Austin, Tex.-----	41	36	1,716	1,641
Reading, Pa.-----	28	15	1,207	1,112	Baton Rouge, La.-----	28	28	1,462	1,396
Rochester, N.Y.-----	108	103	5,152	4,916	Corpus Christi, Tex.-----	121	27	2,174	1,033
Schenectady, N.Y.-----	18	22	1,191	1,257	Dallas, Tex.-----	137	125	6,361	6,045
Scranton, Pa.-----	132	56	2,196	1,866	El Paso, Tex.-----	50	33	1,936	1,832
Syracuse, N.Y.-----	66	62	3,191	3,193	Fort Worth, Tex.-----	77	83	3,403	3,220
Trenton, N.J.-----	55	25	2,077	2,171	Houston, Tex.-----	182	159	8,478	7,943
Utica, N.Y.-----	31	22	1,382	1,420	Little Rock, Ark.-----	59	78	2,926	2,699
Yonkers, N.Y.-----	45	42	1,605	1,578	New Orleans, La.-----	194	184	9,120	8,652
EAST NORTH CENTRAL:					Oklahoma City, Okla.-----	76	78	3,835	3,581
Akron, Ohio-----	69	57	2,902	2,955	San Antonio, Tex.-----	116	113	5,117	4,815
Canton, Ohio-----	30	48	1,770	1,695	Shreveport, La.-----	68	50	2,739	2,537
Chicago, Ill.-----	756	724	39,062	38,347	Tulsa, Okla.-----	56	47	2,774	2,503
Cincinnati, Ohio-----	176	172	8,029	7,947	MOUNTAIN:				
Cleveland, Ohio-----	218	211	10,743	10,570	Albuquerque, N. Mex.-----	27	22	1,626	1,514
Columbus, Ohio-----	135	125	6,060	5,982	Colorado Springs, Colo.-----	12	14	844	789
Dayton, Ohio-----	166	95	23,891	3,477	Denver, Colo.-----	142	148	6,121	5,826
Detroit, Mich.-----	350	298	17,074	16,714	Ogden, Utah-----	13	15	831	754
Evansville, Ind.-----	36	38	1,895	1,889	Phoenix, Ariz.-----	96	75	3,913	2,614
Flint, Mich.-----	52	43	2,065	2,034	Pueblo, Colo.-----	14	13	821	703
Fort Wayne, Ind.-----	49	29	1,873	1,877	Salt Lake City, Utah-----	50	58	2,482	2,470
Gary, Ind.-----	23	25	1,564	1,490	Tucson, Ariz.-----	51	32	1,841	1,187
Grand Rapids, Mich.-----	39	42	2,098	2,128	PACIFIC:				
Indianapolis, Ind.-----	134	162	7,397	6,975	Berkeley, Calif.-----	19	22	872	875
Madison, Wis.-----	43	39	1,677	1,561	Fresno, Calif.-----	(35)	(56)	(2,272)	(2,027)
Milwaukee, Wis.-----	142	149	6,416	6,506	Glendale, Calif.-----	(32)	(30)	(1,876)	(1,831)
Peoria, Ill.-----	47	33	1,562	1,498	Honolulu, Hawaii-----	42	37	2,105	1,949
Rockford, Ill.-----	37	28	1,474	1,372	Long Beach, Calif.-----	67	58	2,820	2,769
South Bend, Ind.-----	27	31	1,499	1,404	Los Angeles, Calif.-----	438	516	25,396	24,482
Toledo, Ohio-----	109	103	5,093	5,025	Oakland, Calif.-----	101	116	4,907	4,637
Youngstown, Ohio-----	60	61	2,828	2,707	Pasadena, Calif.-----	34	30	1,760	1,603
WEST NORTH CENTRAL:					Portland, Oreg.-----	100	92	5,593	5,512
Des Moines, Iowa-----	68	44	2,815	2,700	Sacramento, Calif.-----	72	62	3,006	2,854
Duluth, Minn.-----	24	28	1,293	1,319	San Diego, Calif.-----	97	98	4,639	4,157
Kansas City, Kans.-----	45	49	1,818	1,837	San Francisco, Calif.-----	186	221	10,072	9,915
Kansas City, Mo.-----	151	136	6,422	6,100	San Jose, Calif.-----	(37)	(47)	(1,779)	(1,308)
Lincoln, Nebr.-----	(38)	(22)	(1,321)	(1,341)	Seattle, Wash.-----	140	144	6,954	6,945
Minneapolis, Minn.-----	125	113	6,343	6,232	Spokane, Wash.-----	55	36	2,436	2,509
Omaha, Nebr.-----	71	67	3,725	3,606	Tacoma, Wash.-----	35	45	2,075	2,049

¹Estimated.

²Includes estimate for current week.

EXPLANATION OF SYMBOLS USED IN TABLES

Data not available-----	---
Quantity zero-----	-
Percent more than 0 but less than 0.05-----	0.0
Disease stated not notifiable-----	*
Figures within parentheses not included in totals--	()

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SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from the health departments of each State and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Total figures for the United States and the Pacific Division include data for Alaska for 1959 and 1960; data for Hawaii are included for 1960 only. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting these diseases. When diseases of rare occurrence are reported by a State (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) this is noted below table 1.

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